

# Alfa Laval CB30 /CBH30 / CBP30

## Brazed plate heat exchanger

### Introduction

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

### Applications

- HVAC heating and cooling
- Refrigeration
- Oil cooling
- Industrial heating and cooling

### Benefits

- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

### Design

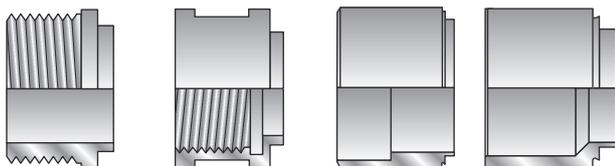
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

Different pressure ratings are available for different needs.

The unit can be supplied with a refrigerant distribution system for optimal evaporator performance.

Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

### Examples of connections



External thread

Internal thread

Soldering

Welding



## Technical data

### Standard materials

Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper

### Dimensions and weight

#### Dimensions and weight <sup>1</sup>

A measure (mm)	13 + (2.31 * n)
A measure (inches)	0.51 + (0.09 * n)
Weight (kg) <sup>2</sup>	1.2 + (0.11 * n)
Weight (lb) <sup>2</sup>	2.65 + (0.24 * n)

<sup>1</sup> n = number of plates

<sup>2</sup> Excluding connections

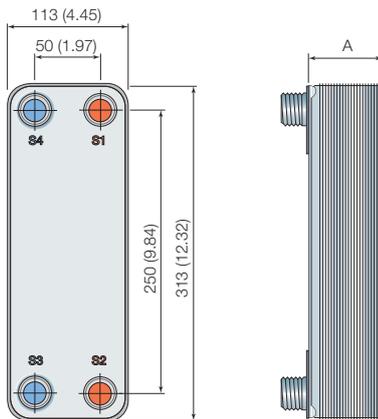
#### Standard data

Volume per channel, litres (gal)	0.054 (0.0143)
Max. particle size, mm (inch)	1 (0.039)
Max. flowrate <sup>1</sup> m <sup>3</sup> /h (gpm)	14 (61.6)
Flow direction	Parallel
Min. number of plates	4
Max. number of plates	150

<sup>1</sup> Water at 5 m/s (16.4 ft/s) (connection velocity)

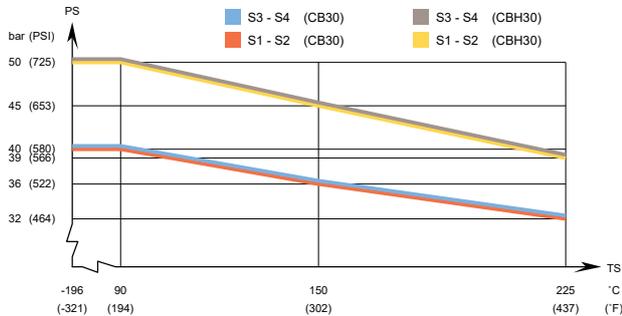
## Dimensional drawing

Measurements in mm (inches)

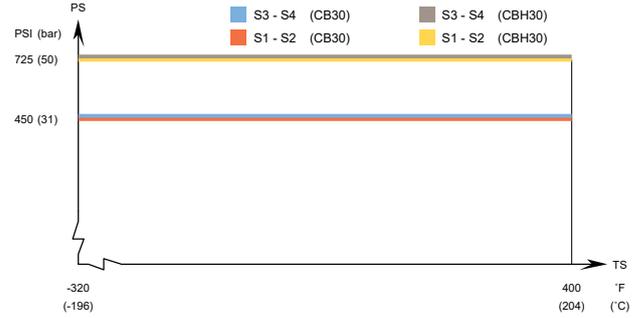


## Design pressure and temperature

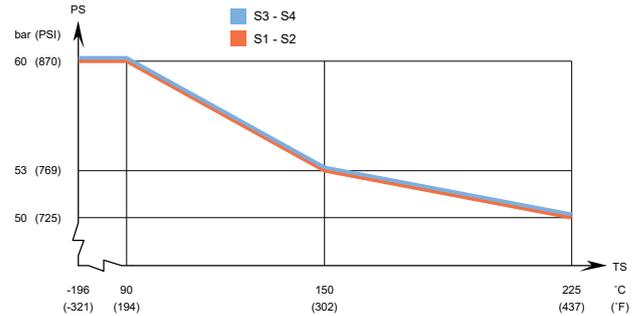
### CB30 – PED approval pressure/temperature graph



### CB30 – UL approval pressure/temperature graph



### CBP30 – PED approval pressure/temperature graph



Designed for full vacuum.

Alfa Laval plate heat exchangers are available with a wide range of pressure vessel approvals. Please contact your Alfa Laval representative for more information.

**NOTE:** Values above are to be used as an indication. For exact values, please use the drawing generated by the Alfa Laval configurator or contact your local Alfa Laval representative.

### Marine approvals

CBM30 can be delivered with marine classification certificate (ABS, BV, CCS, ClassNK, DNV-GL, KR, LR, RINA, RMRS)

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